BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Drains and culverts at of A sector, B sector and Matru layout in Ward No. 04

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount in Rs
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	For Drain Desilt	Sqm							
	Kundan electronics		1	100.00	0.90		90.00		
							90.00		
	misiing / damaged 40%						36.00		
							54.00	111.30	**6010.20**
	Basic Rate Rs.=	105.00							
	Add 6% A.W Rs. =	6.30							
	Total Rate Rs. =	**111.30**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	A sector								
	8th main		2	200.00	1.10	0.90	396.00		
	11th main		2	118.00	1.10	0.90	233.64		
	13th A cross		2	150.00	0.90	0.90	243.00		
	B sector								
	13th B main		2	412.00	0.90	0.90	667.44		
	15th B cross		2	300.00	0.90	0.90	486.00		
	Mathru Layout								
	3rd cross		2	240.00	1.10	0.90	475.20		
	For RCC Culvert		4	5.80	1.50	0.90	31.32		
	For Rain water harvesting pit				Area				
	.6m dia		20	3.00	0.39		23.10		
	For Drain Desilt	Sqm							
	Kundan electronics		1	100.00	0.60	0.30	18.00		
							2573.70	215.28	**554066.14**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	A sector								
	8th main		2	200.00	1.10	0.15	66.00		
	11th main		2	118.00	1.10	0.15	38.94		
	13th A cross		2	150.00	0.90	0.15	40.50		
	B sector								
	13th B main		2	412.00	0.90	0.15	111.24		
	15th B cross		2	300.00	0.80	0.15	72.00		
	Mathru Layout								

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	3rd cross		2	240.00	1.10	0.15	79.20		
	For Kerb Stone								
	A sector								
	8th main		2	200.00	0.20	0.10	8.00		
	11th main		2	118.00	0.20	0.10	4.72		
	13th A cross		2	150.00	0.20	0.10	6.00		
	B sector								
	13th B main		2	412.00	0.20	0.10	16.48		
	Mathru Layout								
	3rd cross		2	240.00	0.20	0.10	9.60		
	For RCC Culvert		4	5.80	1.50	0.15	5.22		
	RCC Road Restoration								
	Kundan electronics		1	100.00	1.50	0.15	22.50		
			1	30.00	1.50	0.15	6.75		
	Sanitary core		1	130.00	1.50	0.15	29.25		
			1	30.00	1.50	0.15	6.75		
	Cut portion rectification		5	52.00	1.20	0.15	46.80		
							569.95	**5421.90**	**3090211.91**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	A sector								
	8th main		2	200.00	0.90	0.15	54.00		
	11th main		2	118.00	0.90	0.15	31.86		
	13th A cross		2	150.00	0.75	0.15	33.75		
	B sector								
	13th B main		2	412.00	0.75	0.15	92.70		
	15th B cross		2	300.00	0.65	0.15	58.50		
	Mathru Layout								
	3rd cross		2	240.00	0.90	0.15	64.80		
	side walls								
	A sector								
	8th main		4	200.00	0.15	0.60	72.00		
	11th main		4	118.00	0.15	0.60	42.48		
	13th A cross		4	150.00	0.15	0.60	54.00		
	B sector								
	13th B main		4	412.00	0.15	0.60	148.32		
	15th B cross		4	370.00	0.10	0.60	88.80		
	Mathru Layout								
	3rd cross		4	240.00	0.15	0.60	86.40		
							827.61		
	For RCC Culvert								
	Raft		4	5.80	1.30	0.23	6.94		
	side walls		8	5.80	0.23	0.60	6.40		
							13.34		
					Net Qty.		**840.95**	7070.20	**5945684.69**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Total Rate Rs. =	**7070.20**							
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		827.61	0.060	--	49.66		
	Considering steel For Culvert & Slab @ 90 kg / cum			13.34	0.090	--	1.20		
							50.86	73992.24	**3763038.15**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
6	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	A sector								
	8th main		2	200.00	0.90	--	360.00		
	11th main		2	118.00	0.90	--	212.40		
	13th A cross		2	150.00	0.75	--	225.00		
	B sector								
	13th B main		2	412.00	0.75	--	618.00		
	15th B cross		2	300.00	0.60	--	360.00		
	Mathru Layout								
	3rd cross		2	240.00	0.90	--	432.00		
	from item no. 01						36.00		
							2243.40	2337.00	**5242825.80**
7	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	4	5.80	1.20	--	**27.84**	5418.00	**150837.12**
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	A sector								
	8th main		2	200.00			400.00		
	11th main		2	118.00			236.00		
	13th A cross		2	150.00			300.00		
	Mathru Layout								
	3rd cross		2	240.00			480.00		
	B sector								
	13th B main		2	412.00			824.00		
							2240.00		
							4978.00		
	Deduct 30% available						1493.40		
							3484.60	432.48	**1507019.81**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
9	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	A sector								
	8th main		2	200.00	0.30		120.00		
	11th main		2	118.00	0.30		70.80		
	13th A cross		2	150.00	0.30		90.00		
	Mathru Layout								
	3rd cross		2	240.00	0.30		144.00		
	B sector								
	13th B main		2	412.00	0.30		247.20		
							672.00	84.80	**56985.60**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
10	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to(P.No-176,I No-22.6.1)								
		Cum							
	RCC Road								
	Kundan electronics		1	100.00	6.00	0.15	90.00		
			1	30.00	3.00	0.15	13.50		
	Sanitary core		1	130.00	7.00	0.15	136.50		
			1	30.00	3.00	0.15	13.50		
	Cut portion rectification		5	52.00	1.20	0.15	46.80		
							300.30	5421.90	**1628196.57**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
11	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of materials, labour, HOM complete as per specifications, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 (600mm dia)(I No-34.7.5,P No-255)								
	For Rain water harvesting pit	m							
			20	3.00			60.00		
							60.00	2288.54	**137312.40**
	Basic Rate Rs.=	2159.00							
	Add 6% A.W Rs. =	129.54							
	Total Rate Rs. =	**2288.54**							
12	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. (Material Rates Pg No. II)								
	For Rain water harvesting pit	Cum							
	a) 40mm Jelly		20	0.75	0.39		5.78		
							5.78	1091.43	**6303.01**
	b) 20mm Jelly		20	0.75	0.39		5.78		
							5.78	1091.43	**6303.01**
	c) Coarse sand		20	0.75	0.39		5.78		

S' No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							5.78	1091.43	6303.01
	d) Fine Sand		20	0.75	0.39		5.78		
							5.78	1054.29	6088.52
							Sub Total 1 Rs.		22101175.73
	Add GST @ 12%								2652141.09
	PMC Charges								246000.00
							Sub Total 2 Rs.		24999316.81
	Miscellaneous & Rounding off								683.19
								Total Rs.	25000000.00

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates and Data Rates
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Ward 04	Yelahanka Newtown Sub Division	Yelahanka Division
BBMP	BBMP	BBMP

Administrative Sanction for Rs. ...250.00...lakhs
.....Two crores.....
.....
is accorded under head P-376S-
.Special....development. works.....
.....2019-20.....
Registered as CE No. .....
to conditions contained in enclosed memo
No EE/YNL/AS/62/2020-21 ... Dt: 17.11.2020

Executive Engineer

Technical Sanction
Accorded for RS 250 lakhs only
Head of P 3768
CE NO 328 Dt: 27.03.2020

TA

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